


AMENDMENTS TO THE SPECIFICATION:

Please amend the specification as follows:

Page 20, first full paragraph:

 A Fasttrak II system (produced by Polhemus Corporation) can be given as an example of this type of measurement system 10. Conventionally, when performing image measurements from images taken by a CCD video camera, the sampling period of the captured image is 1/60 ~~sec~~ seconds, and measurement resolution of the position of the grip portion is from 1 to 2 mm, but the time sequence data of the Fasttrak II system are acquired in a sampling period of, for example, 1/120 ~~sec~~ seconds, measurement resolution of 0.8 mm, and a rotational angular resolution of 0.15 ~~deg~~ degrees. More detailed information regarding behavior of the grip portion 14 during the swing can therefore be obtained, because the sampling period is shorter, and the resolution higher, compared to that of conventional methods.

Furthermore, measuring the rotation angle of the shaft of the golf club, and the wrist angle, by image measurements of images captured by CCD video camera is difficult by nature. For example, even though measurements can be performed by attaching a special jig to the golf club, the rotation angle around the shaft axis data and the wrist angle data cannot be obtained at a resolution so much high as that of the measurement system by magnetic field of the present invention, for example the 0.15 ~~deg~~ degrees resolution of the Fasttrak II system.

In addition, at most, on the order of 2 ~~sec~~ seconds of swing data, for example the three dimensional position coordinates (x, y, z) and the posture

[Signature]



FINNEGAN
HENDERSON
FARABOW
GARRETT &
DUNNER LLP

-4-

AR
this definition. The golf club 12 shows a negative wrist angle in the figure. The wrist angle θ_2 is thus extracted from the swing path arc B (step 106).

Page 31 first full paragraph:

Q3
The golfer G_4 has a constant shaft rotation angle θ_3 of approximately 60 deg degrees from the top state to a state at which the arm angle θ_1 is 270 deg degrees, and the shaft angle θ_3 then changes abruptly in a narrow range from that location to the impact state P. On the other hand, the golfer G_3 does not maintain a constant shaft angle θ_3 it is always changing. It is thus understood that, compared to the golfer G_3 , the golfer G_4 possesses the characteristics of a swing with weak roll.